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5 November 1962

MEMORANDUM FOR: Chief, Technical Plans and Development Staff
THROUGH : Executive Secretary, TDC
SUBJECT : Staff Study

1. PROBLEM

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A requirement exists for a device which would properly prepare the several similar negative formats for insertion in the [] Multiple Image Correlator.

2. FACTS

The design of the Mark I MIC permits as many as 8 negatives to be precisely registered and printed as a single output of this multiple signal. Since the input materials may vary in negative format sizes, it is necessary to cut portions of several negatives containing identical imagery for insertion in the MIC. The present design of the Mark I dictates that these pieces be circular in shape and approximately one inch in diameter. For testing purposes the cutting of these several negatives has been accomplished by a rather crude punch and dye. The need for precisely centering the identical imagery contained in these circular chips was recognized by the contract monitor and a proposal was solicited for the fabrication of a "cookie cutter" (or an input inspection, selection and preparation device). The proposal, as submitted by [] is based on a discussion of the requirements as outlined by the contract monitor to the project engineer.

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3. DISCUSSION

Since precise alignment and registration of the several negatives is the key to multiple image correlation, it follows that any device which would facilitate the selection and preparation of these several negatives would be an important and necessary adjunct to the Mark I instrument. This support equipment will materially reduce the time required for the operator to achieve precise alignment in the MIC.

4. CONCLUSIONS

This proposal, which was solicited by the contract monitor, completely covers the requirements as outlined above.

Declass Review by NIMA/DOD

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5. RECOMMENDATIONS:

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It is recommended that NPIC negotiate a contract with [REDACTED] for [REDACTED] CPTF, for the construction of this equipment. The TDC has approved a proposal by [REDACTED] for the test and evaluation of the Mark I MIC and the cookie cutter is a necessary item in support of this program.

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